FLOW SCHEMATIC FOR FIELD SUPPLIED DATA ENTRY AND BASE STATION OR SERVICE PROVIDER SUPPLIED COMPUTER ASSISTANCE

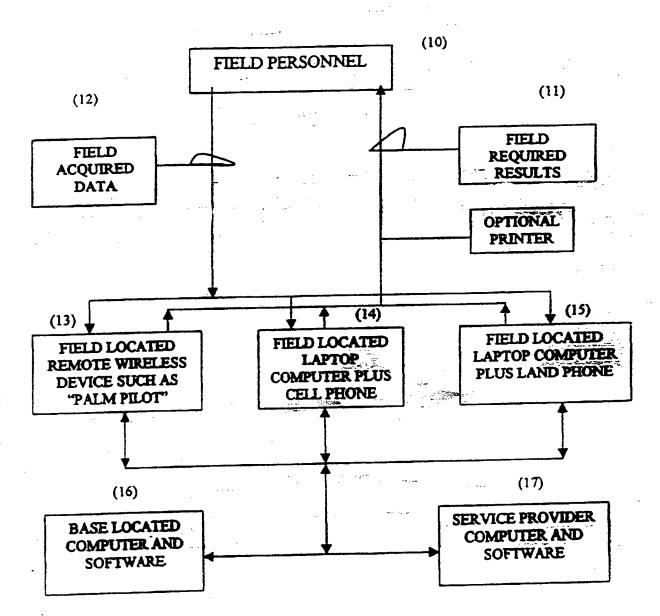
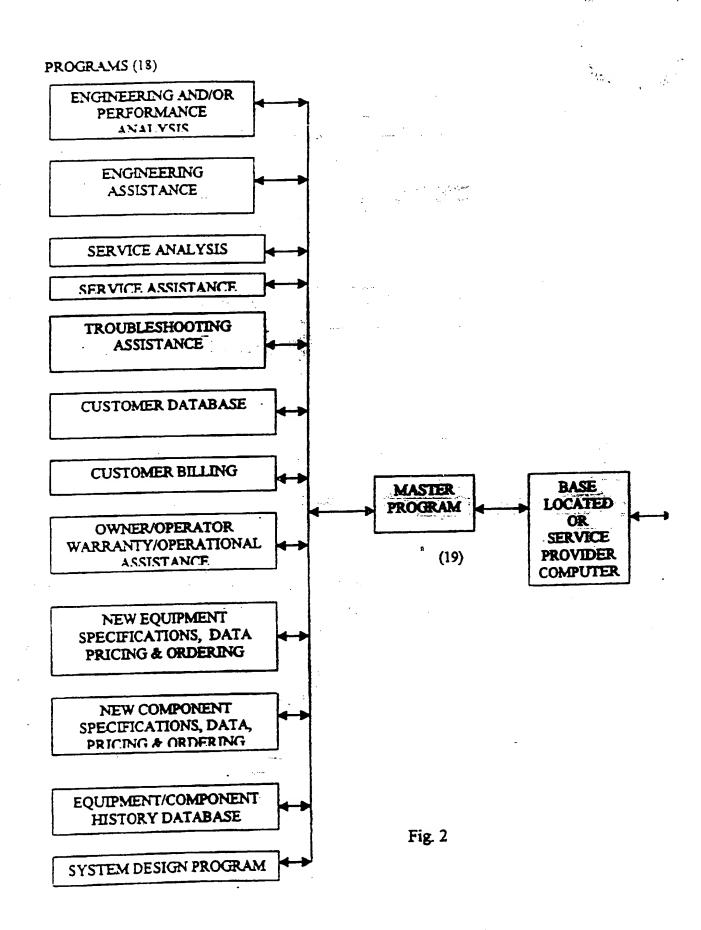
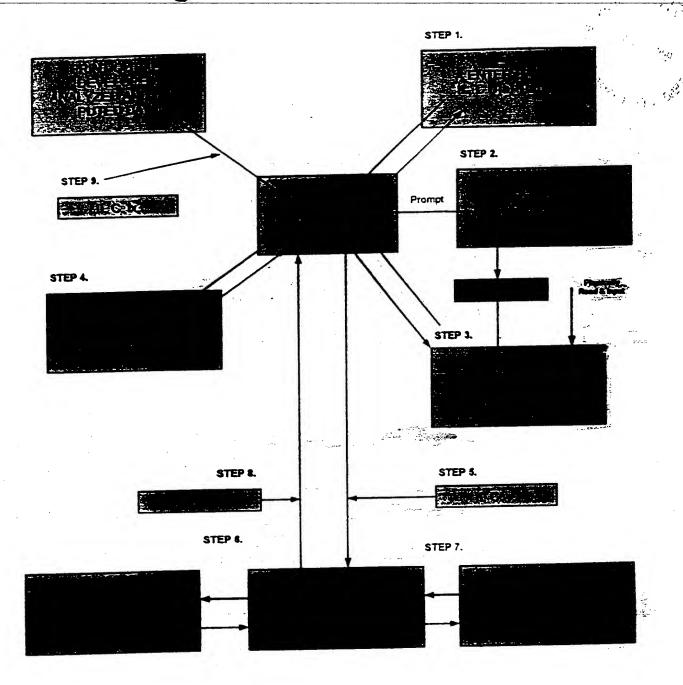


FIG. 1





F16.3

I. AVAILABLE INFORMATION DATA SHEET:

⋖	1
-	
'n	
4	
_	٦

TYPE OF ANALYSIS (X which applies):	piles):	Per] Trbishtg] T&B					
Job Name:				Phone:			JFax: [
Job Address: street					John] state		∐ dız		
Other: (e -mail)	(A)		other				· []				
Date: S S Refrigerant Type:	Start Time:	_₹	Alr-cooled (X)		Water	Water-cooled (X)	[_			
Unit Number or Specific Location: Type of Systm (X): Chiller		Package		Split		FT		H/P[Refrig	
PART B	- .	manuf		A street in the second	Cuantity	ou Japour	on lands	paeds day	* ,	٠	
Package System	ند. 	4					1				
Chiller/Condenser		1				7.					
Fan Coil Unit : Split System Condenser A/C											
Split System Condenser H/P								A. C. S.			
Split System Air Handler								¥			
Refrigeration Unit Condenser								SERVE TO THE PERSON OF THE PER			
Refrigeration Unit Evaporator	لنيخ			***							
DATA PLATE INFORMATION	bJuu	₃ .	ou Jepour	serial no	ψ	иди	FLAMILA	LRA	volts	phase	112
Condenser Fan Motor											
Blower Fan Motor						1	,				
Compressor No 1		7	وال	-		25					
Compressor No 3		1					- But de Sais-	T			
Compressor No 4		THE	,		A SECTION OF THE SEC	Tarres-The	China acrific				
Main Supply Plenum Dimensions Previous Month Electrical Consumption (I Previous Month System Water Consumpti	A) uondur	W) in (Oals)		Return Plen Total Cost (Return Plenum Dim Total Cost (\$) Total Cost (\$)		TTI				
Previous Month Gas Consumption (Cu Ft)	on (Cu Ft)			Total Co	£		ت	FIG	16. 9a	₹.	Maga.

Miscellaneous Data Sheet				•				
	(X which applies)							
Condition of:	Good	Bad	Explanation					
Condenser Coil								
Evaportor Coil								
Cabinetry AH			,	4				
Cabinetry Cond								
Ductwork								
Liquid Line Dryer								
Suction Line Dryer								
Suction Accumulator								
Liquid Receiver								
Reversing Valve								
Expansion Device								
Refrigerant Lines								
Condenser Fan Motor								
Condenser Fan Blade								
Evaporator Blower Motor								
Evaporator Blower Shaft								
Evaporator Blower Bearings								
Evaporator Blower Belts								
Electrical Wiring								
Capacitors								
Contactors								
Relays		•						
Transformers								
Other Component (input below)								
- , -								

Obvious Oil Leak Locations

\mathbf{F}	\sim	4t	
пΙ	ILΤ.	41	J

III. OPERATIONAL DATA SHEET:

	Temperatures, Refrigerant	Fahrenheit	t Celsius		Temperatures, Ai	r	Fahrenhe	it Celsius
	(X which applies)		-		(X whi	ch applies)		
	Hot Gas Discharge at Compres	SSOC	Α.		Air Entering Cond	denser	DB	
	Hot Gas Entering Condenser				Air Entering Cond		WB	
	-			٠.	Air Exiting Conde		DB	
	Mid Condenser Coil				Air Entering Evap		DB	
	Liquid out of condenser				Air Entering Evap		WB	
	Liquid into expansion device						DB	
	Mid Evaporator coil		3		Air Exiting Evapo	/***	WB	
	Suction line after evaporator				Air Exiting Evapo			
	Suction line into compressor				Air Exiting Air Ha		DB	
	Heat Pump, Suction line into n	ev Valve			Air Exiting Air Ha	naier	WB	
	Heat Pump, Hot Gas line into r	rev Valve	3					• •
		0.				, , , , , , , , , , , , , , , , , , , ,		ه د طوحهای مسکر محمد است
	Pressures, Refrigerant	PSIG	PSIA	÷	Pressures, Air Flo		s water gau	O Section of
	OX which applies)				Static before Air I	landler 💮		
T.	Hot Gas Discharge @ compres	SSOF		*	Static after Air Ha		eri. Farri	
	Hot Gas Discharge @ condens				Velocity pressure	Transverse	Avg at	
	Liquid Refrigerant exit conden				straight duct sect	ion with din	ensions	
Q	Liquid Refrigerant enter Exp D				given for main su	pply or retu	m plenums	
U	Suction Gas exiting evaporate		57				en Translate	
F	Suction Gas entering compres							
	Suction Gas entering comples			-	and the second of the second o	7.00		
Ħ	The state of the second		Amps	- C. A.	Volts Phase	e <i>h</i> z		
# 3 ##	Electrical Data (Running)		•		1012	• •		
2 2								
		L1	<u>L2</u>	<u>L3</u>	(-61		
	Compressor No 1	L1	12	L3			7	
	Compressor No 1 Compressor No 2	L1	12	L3				
	•	2	12 	L3				
-1	Compressor No 3 Compressor No 3	L1		L3				
1	Compressor No 2 Compressor No 3	2		L3				
4 4 3 6	Compressor No 3 Compressor No 3	2		L3				
1	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors	2		13				
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity							
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity							. -
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1							. -
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2							. -
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1							
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2							
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1							
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2							
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2						PSIG	PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water	Fahrenheit			Water Flow Rate		PSIG	PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water (X which applies)	Fahrenheit			Water Flow Rate (X whice	h applies)		PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water	Fahrenheit			Water Flow Rate (X whice Chiller, Evaporate	th applies) or Return L	ine	PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water (X which applies)	Fahrenheit			Water Flow Rate (X whice Chiller, Evaporate Chiller, Evaporate	th applies) or Return L or Supply L	ine	PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water (X which applies)	Fahrenheit EWT LCWT			Water Flow Rate (X whice Chiller, Evaporate Chiller, Evaporate Water Cooled Equ	th applies) or Return L or Supply L	ine ine	PSIA
4 4 3 6	Compressor No 2 Compressor No 3 Compressor No 4 Condenser Fan Motors Quantity Blower Motors Quantity Pumps - Chiller Circ 1 2 Evaporative Tower 1 2 Water Cooled Circ 1 2 Temperatures, Water (X which applies) Chiller	Fahrenheit			Water Flow Rate (X whice Chiller, Evaporate Chiller, Evaporate	th applies) or Return L or Supply L	ine ine	PSIA

IV. TROUBLE SHOOTING QUESTIONNAIRE DATA SHEET Mark all those that apply (X)

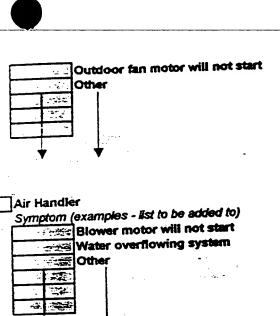
	,,,,,			
Fit.	Chiller Co		Geothe	omai
		Air Cooled	Dual Sc	
		Water Cooled	Duai St	MI CO
		_	and doed do	. ,
	Symptom	(examples - list to be	added (v)	
		Unit will not run	on will not AIA	
		Outdoor unit secti	OU AIII HOLLAN	
		Compressor will n	or sur content	
		Outdoor fan moto	ienser water pump w	ill not start
	7	Outdoor unit con	jenser water patty	
		Compressor num	s but will not start	
		Compressor cycli	n high pressure cont	rol
		Compressor off o	ti tiidit brossma aan.	
	4 1971	Noisy compresso	oil -	•
		Compressor lose		forequely
		The same of the same of	* MANAGING COURSES	M (Inches or minist
		Tidald Kemideren	t flooding compress	or (TXV)
		Liquid Kennyeran	filonema comb.	•
		High head pressu	, G **	•
	Alexander agency	Low head pressu	eenra	
	10 mg. 11 mg	High Suction Pre	SELETA	` \
	5-7 AK	Low suction pres	nets	*.
		High operating C		• • • •
•		Other	are and a second	ř
		4		•
*	- 1		,	
	. ↓	→		•
		*******		. In
	Water 1	m (examples - list to	be added to)	
	Sympto		at run	
		Cooling return v	vater temperature hig	h
		Scale buildup is	rapid	
		Sump water har	dness is high	
		Other	<u> </u>	•
	-	-1~"		
		4 †		

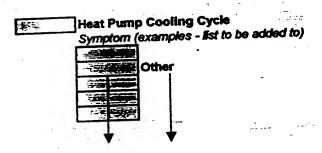
*	Symp	tom (Jnit (examples - list to be added to) Fan motor will not run No cooling, but fan is on Too much cooling Other
		1.50	
		3.3]
		ı	' ETC NA

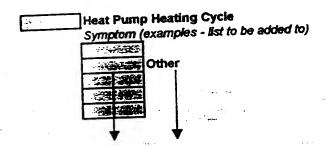
FIG. 4d

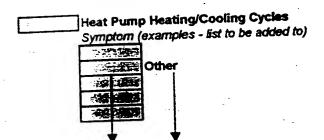
	· · ·
Oil Heat	
Symptom (examples - list to be a	ided to)
Burner will not start	
Burner starts and fire	a but short evelet
Burner starts and in	s but short cycles
Burner starts and fin	es but does not heat enough
Burner starts and fin	s then locks out on safety
Burner starts and fin	es but no flame is established
Burner starts and fin	es but loses flame and locks out on safety
Too much heat; burn	er runs continuously
Too little heat; burne	r runs continuously
Other	
	Section 2
↓ - ↓ :	•
•	
•	
***	•
Gas Heat	
Symptom (examples - list to be ac	ided to)
Unit will not run	
Fan will not run	
Other	1
- Care	•
	
↓ ↓	,
▼ ▼	
	Ì
Electric Heat	
Symptom (examples - list to be ac	ided to)
Unit will not run	
Fan will not run	, <u>a</u>
Other	.
June	
- 1	
	. **
d	
↓ ↓	
Y	
Air Conditioning	·
Air Cooled	Geothermal
Water Cooled	Dual Source
Split System	Package
Shir olamin	
O material formandos. But he he of	ricked to)
Symptom (examples - list to be a	
Unit will not run	
Outdoor unit section	
Compressor will not	start
2nd stage compress	or will not start

FIG. 4e



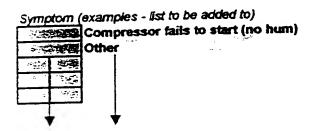


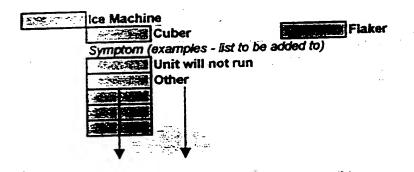


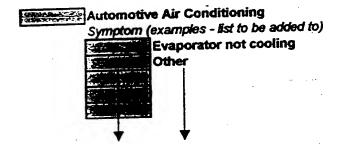




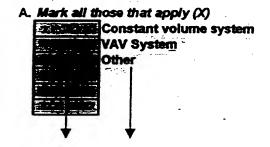








V. TEST AND BALANCE - AIR VOLUME DATA SHEET



B. Fill in all appropriate (highlighted) below: Example:

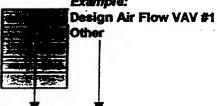


FIG. 4h

DOSE4959 LIISOI

III. OPERATIONAL DATA SHEET:

	Temperatures, Refrigerant	Fahrenheit	Celsius		Temperati	ures, Air	•	Fahrenheit	Celsius
	(X which applies)					(X which	applies)		
	Hot Gas Discharge at Compres	sor			Air Enteri	ng Conden	Ser	DB	
	Hot Gas Entering Condenser	1			Air Enteni	ng Conden	ser	WB	
	Mid Condenser Coil	1			Air Exiting	Condens	er	DB	
	Liquid out of condenser	t			Air Enteri	ng Evapor	ntor	DB	
	Liquid into expansion device	ŀ			Air Enter	gg Evapor	dor	WB	
	Mid Evaporator coil	1				Evaporat		DB	
	Suction line after evaporator	Ì				Evaporat		WB	
	Suction line into compressor	t				Air Handi		DB	
	Heat Pump, Suction line into re	v Valve				Air Hand		WB	
	Heat Pump, Hot Gas line into n	w Valve					•		
	near rump, nor das and and t			•					
	Pressures, Refrigerant	PSIG	PSIA		Pressures	Air Flow	(in inches	water gaug	•)
	(X which applies)		₩:		SCIE			E	92."
	Hot Gas Discharge & Compres	-		77 - W	SEE	VEHILL			N. C
	Hot Gas Discharge @ condens					TO SEE	TANK Y		
nun.	Liquid Refrigerant exit conden					uct section		Alloids	
_	Liquid Refrigerant enter Exp D					main supp		pienums	
D					3			•	
Ī	Suction Gas exiting evaporator								
IJ	Suction Gas entering compres	, [
Ē	me at the American		Amps		Volts	Phase	hz		
I J	Electrical Data (Running)		L2	L3	VORS	,,,,,,,,	••=		
		L1		<u> </u>	T			7	
Π	The second secon					 		1	
D	Compressor No 2	 			 	 		{	
1	Compressor No 3	<u> </u>			 			1	
====	Compressor No 4	<u> </u>				 		i	
1	Condenser Fan Motors				<u>i</u>		<u> </u>		
1	Quantity	ļ			т		· · · · · · · · · · · · · · · · · · ·	1	
J	Blower Motors				<u> </u>	<u> </u>	<u> </u>	1	
3 4	Quantity				т			1 .	
	Pumps - Chiller Circ 1	<u></u>			 	 	 	1	
وأعه	2	<u> </u>			ļ	 	 	4	
	Evaporative Tower 1						 	1	
	2						 	i	
	Water Cooled Circ 1							1	
	2				<u> </u>			J	
					_	_		2010	0014
	Temperatures, Water	Fahrenheit	Celsius		Water Flo			PSIG	PSIA
	(X which applies)					(X which a			
	Chiller	EWT			Chiller, Ev	raporator			
		LCWT			Chiller, Ev	vaporator	Supply Li	ne	
	Water Cooled Condenser	EWT			Water Co	oled Equip			
		LWT			Condense	H	Return Li	ne	
				•	Condense	H	Supply Li	ne	

I. AVAILABLE INFORMATION DATA SHEET:

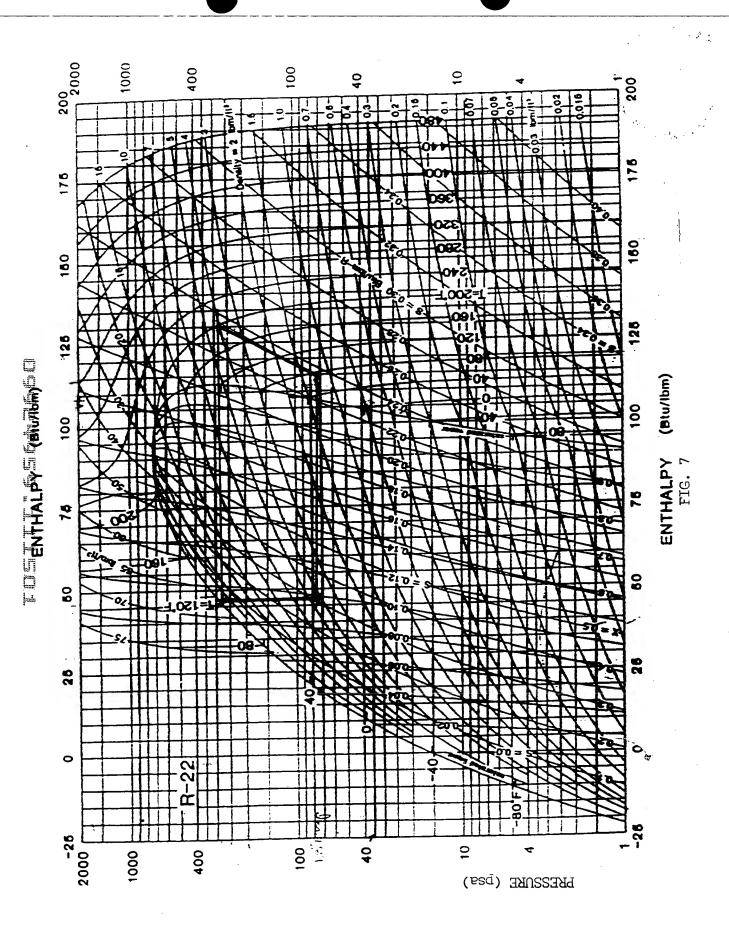
PARTA

2597E 0		X Refrig				s phase	09 077/402) 087		
[660]555-8480		. □ -	peeds usu o		W. Har	LRA	₩	यः) तः		
Fax:			serial no		7	FLARLA	براء	7		
©		Water cooled (X)	ou Jepour		AHTO-ONE ALCHONIN	rpm	8 3	YY		150 " x24" a
7.8 T		XX XX	quantity		$\frac{1}{1}$	hp	\$	NA.		
Trbishtg Phone: Offy		No.				serial no	N.A.	HZSARGEBA ENY BINDI		Total Cost
	other [System of			<u>د</u> د	ou Jepom	N.A.	HZSARGCBA		201.502
(X which applies): Pert	रकाध्यराक्ष्य Btart Time:	Co S	manul		ENEOR	, dju	4.9.5.4	Bricks		Consumption (Outs)
NALYBIB	mall) [LXLV-N-N-17]	ant Type: 4-2 nber or Specific Locati Systm (X): 0 (Hiller	Package Bystem Chiller/Condenser	Fan Coll Unit: Spiit System Condenser A/C	Spilt System Congenear HP Spilt System AL Handler Refrigeration Unit Condenser Refrigeration Unit Evaporator	DATA PLATE INFORMATION	Condenser Fan Motor	Compressor No 2	Compressor No 3	Main Bubay Rhamint Dimensions V Previous Month System Water Consumerations Month System Water Consumeration (Cultural Month Gas Consumption (Cultura Month Gas
TYPE OF A Job Name: Job Addrei	Other: Date:	Refriger Unit Nur Type of	Pack Chille	Fan		DATA	Con	E E	E O C	P S

FIG. 6a

III. OPERATIONAL DATA SHEET:

						1		
Temperatures, Refrigerant	Fahrenheit	Celsius		Temperati			Fahrenheil	Celsius
(X which applies)	X				(X which	applies)	X	<u> </u>
Hot Gas Discharge at Compre	esor	200		Air Enteris			DB	92
Hot Gas Entering Condenses			mis (* *	Air Enteris			WB	
Mid Condenser Coil				Air Exiting			DB	
Liquid out of condenser_		124		Air Enteria	ng Evapora	ttor	DB	75.0
Liquid into expansion device		124		Air Enteris	g Evepor	HOT	WB	65,0
Wid Evaborator con	-			Air Exiting	Evaporat	Dr	DB	N.A.
Suction line after evaporator				Air Exiting	Evaporat	or	WB	ALA,
Suction line into compressor		75		Air Exiting			DB	59.0
Heat Pump, Suction line anto	nev Valve			Air Exiting	Ar Hand		WB	56.4
Heat Pump, Suction into and	- Value							
Heat Pump, Hot Gas line into	ISA ASTAG		l .			الله المائمة	seri i i	· 100元表。:
San	_ PSIG	PSIA :	•	Pressures	Air Flow	On inches	weter gan	P) :: 3:-
Pressures, Refrigerant	<u> </u>	7057 1	1.	Static befo				-15×
(X which applies)		11 A		Static and			इंडिडिंग जिल्हा स्ट्रिक	+.25
Hot Gas Discharge @ compre	ESOT.	N.A.		Velocity p				.033
Hot Gas Discharge @ conden	5 6	356		straight di				
Liquid Refrigerant exit conde	user.	575		straight u	ania ama	he or risks	n plenums	
Liquid Refrigerant enter Exp I	Device	¥,Ą,		Given for i	Mass Supp	TA OF LEGIT	p	
Suction Gas exiting evaporate	or .		ļ					
Suction Gas entering compre	ssor	58	1					
					-	-		
Electrical Data (Running)		Amps		Volts	Phase	hz		
	L1	. L2	L3			T . X	-	
Compressor No 1	22,2	22.0		735		60		
Compressor No 2						 	4	
Compressor No 3							_	
Compressor No 4				I	<u>L</u>		⊣	-
Condenser Fan Motors	1,4	1'2	_	232	1	160	_]	
Quantity								
	3.5	3.4		1222	1	133	7	-
Blower Motors					1			
Quantity	_			T	1	T	ן . ו	
Pumps - Chiller Circ 1			 	 	 		7	
2			 	+	 	 	7	
Evaporative Tower 1	<u> </u>		 			+	-	
2	L					+	-	
Water Cooled Circ 1				 			-1	
2	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	لہ	
							PSIG	PSIA
Temperatures, Water	Fahrenheit	Celsius		Water Flo			<u> </u>	7 - 387
(X which applies)]		(X which a		.——	
Chiller	EWT		j		vaporator			ļ
	LCWT		}	Chiller, E	vaporator	Supply !	Line	
Water Cooled Condenser	EWT		7	Water Co	oled Equip)		
Marie Cooled Collegion	LWT		1	Condens	er	Return I	_ine	
			٠ .	Condens	9 6	Supply	Line	



Thermophysical Properties of Refrigerants

Refrigerant 22 (Chlorodiffuoromethane) Properties of Saturated Liquid and Saturated Vapor

	Density, Volume, Starlie			Entr Don't		Specific	Hast c _p .			4	Vacanity, R _u /R-4		Thursday.		Surface Transfer	Term.*			
Temp.* I	-	₽ 46,	2 .				Vaper	Liquid		ÇÆ,	للحلا	Y	Liquid	Vaper	Liquid	Vapor	-		
Ŧ	مغيم	Liquid	V *	Liquid	Vaper	Liquid				1.2914		395.		<u> </u>	<u> </u>	-10		-250.00	
-250.00	_	107.37 106.41	_	-63.169 -56.462		-0.21914 -0.18786		_		1.2860	_	403.		_	_	_ '	1754	-340.00	
-340.00 -230.00	_	105.48	_	-51.569	78.669	-0.16605	0.40101	_		1_2807		411.	-	_	-	· =	36.75 °	-230.00 -230.00	
-20.00	0.002	104.58		-47.705		-0.14958		_	0.1064	1.2754	_	419. 427.	_	_		_	34.67	-210.00	
-210.00	0.004	103.70		-44.COS		-0.13616		_	0.1080		_	435		_	_	_	23.63	-200.00	,
-2000.000	0.010	102.81		-41,474		-0.12457		_	0.1096	1.2604	_	462	_	_	_	_	32.61	-150.00	
-190.00	0.022	101.92		-36.038		-0.11411 -0.10439		_		1,2558		449			· —	_	31.59	-130.00	
-180.00 -170.00	0.044	100.12		-17.424		-0.09521		_		1.2515		456.	_	-	_	_	30.58 29.57	-170.00 -160.00	
-160.00	0.151	99.22		-30.839		-0.08644		_	0.1165	1.2674	_	463.		_		-			
-150,00	0.362	94.30	146.65	-28.369	87.528	-0.07800	0.29594	_	0.1183	1.2037		470	_	_		_	. 28.57 27.57	-150.00	
-140.00	0.435	97.38		-25.708		-0.06986			0.1201	1,2403		42	1. 2 margar - 1. 18 m/2	_	_	_	26.79	-130.00	
-130.00	0.696	96.46		-23.150 -20.594		-0.05435		0.2555	0.1241			41			_	_	25.61	-120.00	
-120.00	1.080	95.53 94.60		-18.038	92.218	1		0.2555	0.1262			-	_	_	0.0765	_	34,64	-110.00	٠
-110.00				-15.481		-0.03973		0.2557	0.1285	1.2315	3290.	500.	_	_	0.0749	_	23.67	-100.00	
-100.00 -20.00	2,384	93.66 92.71		-12.921		-0.03271		0.2561	0.1308			505.	_	-	0.0734	0.00292		-90.00	
-80.00	4,778	91.75		-10.355		-0.02587		0.2567				SIQ.	_		0.0718	. 9.03315 9.03338		-30.00	
-70.00	6.555	90.79		-7.783		-0.01919		0.2574	0.1361	1.2310		514. 519.	_	_	0.0588	0.00060		-00.00	
-60.00	1.130	19.11	3.4766		-98.049	-0.01266						222			0.0673	0.000002	18.95	-38.00	
-50,00	11.696	and .	4.2138			-0.00627 -0.00312			0.1436			504	_	_	0.0665	0.00393		-45.00	
-65.00	13.383	95.33	1.7160		100.138				QHAS			225	_	_	0.0660	0.00401		-41.44	
-41.44b 40.00	14.696	\$750 \$7.82	3.2880		100.296		0.23899		0.1453	1.2374	2761	224		_	0.065%	0.00000		-40.00 -35.00	
-35.00	17,329	87.32	2.9125		100.847		0.2374		0.1471	1.2393		22 .	-	-	0.0651	0.00414		-30.00	-
-30.00	19.617	86.81	2,5984	2.624	101.391	0.00616	0.23602			1.2414	•	. 23.	_	_		90000		-25.00	
-25.00	22,136	86.29	2,3302	3.944	101.928		0.23462		0.1507	1.207		530.		_	0.0636	20040		-20.00	
-20.00	24,899	85.77	2.0774		102.461		0.23327		0.1527 0.1547			331.	_	_	0.0622	0.00456		-15.00	
-15.00	27.924	85.25	1.3650		102.986		0.23197		0.1567		2515.	333.	-	_	0.0614	0.00466		-10.00	
-10.00	31.226 34.821	84.72 84.18	1.6784		104.013		0.22949		0.1589	1.2560		534		_	0.0607	900006	_	-5.00	
-5.00		83.64	13691		104.51.5	0.02406	0.22832	0.2697	0.1611	1.2599	343L	535.	0.615	0.0268	0.0600	0.00486		0.00	
0.00 1.00	38.726 42.960	83.09	1,2406		105.009		0.22718	0.2710	0.1634			232	0.557	0.0271	0.0593	0.00000		5.00 10.00	
10.00	47.538	82.54	1.1265		105.493		0.22607		0.1658			337	0.563 0.563	0.0274	0.0586	0.00576		15.00	
15.00	52,480	81.96	1.0250		105.968		0.22500		0.1683	1.2737		236. 236.	0.546	0.0279	0.0572	0.00026		20.00)
20.00	57.803	81.41	0.9343	16.090	106,434		0.22395					536.	0.530	0.0282	0.0566	0.00536	; . -	25.00	•
25.00.	63.526	80.84		. 17.476	(06.89) 107.336	0.03846	0.22294		0.1737			336	9215	0.0284	0.0559	0.00546		30.00	
30.00	69.667	80.26 79.57	0.7804	18.871	107.769		0.22098		. 0.1794			235	0.499	0.0287	0.0552	0.00555		35.00	
35,00 40,00	76.245. 83.280	79.07	0.6561	_		0.04692			0.1825	1.3059		535.	0.484	0.0290	0.0545	0.00565		40.00 45.00	
45.00	90.791	78.46	0.6029	23.111	108.600	0.04972	0.21912	0.2849	0.1857	13141		534.	0.470	0.0292	0.0538	0.00575		50.00	
50.00	98,799	77.34	محده	24.544	108.997		0.21821			1,3229		233	0.456	0.0295	0.0532 0.0525	0.00584		55.00	
500	107.32	77.22	اااكه		109.379		0.21732		0.1927	1.3324		532. 531.	0.442	0.0298	0.0518	0.00604		60.00	
60.00	116.38	76.58	0.4715		109.748		0.21644		0.1964			230	0.416	0.0303	0.0512	0.00613		65.00)
\$5.00	126.00	75.93			. 110.103	-				1,3663				_	0.0505	0.00625	_	70.00)
70.00	136.19	75.27		30,387	110.441		0.21472				1784	\$27.	0.392		0.0499	0.00032	ł. –	75.00	•
75.00	146.96	74.60	0.3720 0.3451	31.577	110.761			23024				23.	0.380		0.002	0.00647		80.00	
\$0100 25.00	152.40 170.45	73.92 73.22				0.07182	0.21218	0.3055	0.2125			523.	6789	_	0.046	0.0065		25.00	
90.00	183.17	7251	0.2968			0.07456	0.21134	0.3065	0.2238	1.4275	1665.	. 538.	_ C35E	_	0.0479	6.00661		95.00	
	196.57		0.2756	37.977	111.259			0.3123					634	_	00413		_	100.00	
100.00	210.69	71.05	0.2560	39.538	112.081		0,30965	0.3165	0.2356	1.4674	1566.	515		_		0.00690		105.00	
105.00		70.29	0.2379	41.119	112,278	0.08277	0.20579	0.3203	0.3472	1.4912	1330	317	=	_		0.00697		110.0	
110.00		69.51				0.08552	0.20705	0.123%	0.2573	1.5464	HOL	506.	_	_	0.0447	0.00709		115.00	
115.00		68.71	0.338	45.97	112,591	0.09103	0.30615	ans	0.2660	1.5791	1382	302	_		0.0441	0.00719	, –	130.00	3
120.00	•	67.39	0.1714	-3.51E	112.383	0.09379	0.20522	0.3413	0.2756	1.6160	1334	496.	_	_	_	_	_	125.00	
125.00		67.05 66.17	0:657	40 119	117.825	0.09657	0.20427	0.3482	0.2864	1.6581	1257.	-	_	-	_	_	_	130.00	
135.00		65.27	0.1542	51.032	112.826	0.09937	0.30329	0.3359	0.2985	1.7063	1236	43.	_	_	_		_	135.00 140.00	
140.00		64_33	0.1634	52.775	112,784	0.10220	0.20227	0.2642	0.3123	1.7621		407	-	-	_	_	_	KZO	
145.00		63.25	0.1332	STAZZ	112.692			വു						_	_	_		150.0	
150.00		வ				0.10793	0.20006	0.3873	.03468	1.9050	1000	- AL		_	_	_	_	160.0	
160.00		60.12		60.145	112.035	0.11383	0.19757	0.4198	0.3957	2.1125	75. 271	462	_	_	_	_	_	170.0	_
170,00		57.59				0.12001	O IGIO	0.5657	G (4771	7034	752	<u>a</u>				_	_	190.0	
180,00		54.57 89.67		68C597 73.742	109.753	0.13432	0.18613	0.7952	0.9222	44150	616	415.		_	_	-	_	190.0	3
190.00		50.62					0.17805		_	_	_	_	_	_	_	_	_	200.0	
300.00		44,44 32,70		30.558 91.052			0.15989		-	-	0.	. a.	_		-			/ 205.0	_
305.06c	141.14	€، نے ر	<u>uux</u>															منمح لحمنه	g .

"emperatures are on the ITS-90 scale

b = normal boiling point

a critical poi

Superheated Vapor -- Constant Pressure Tables at Pressure Intervals - R-22 v = volume in cuft/ft; H = enthalpy in Btu/ft; S = entropy in

150	140						Absolut	e Pressur	e Balag in.						₹ 7~4.
-	The	75			80		L	85			90			96	
	1 1	50.304 PS	_	•	5.304 PS	_		70.304 PS	IG .		75.304 PS	KG		80.304 PS	16
L		GL13 F			(37.76 P)	_		(41.22 F)			144.53 F		<u> </u>	(47.31 F	
Temp		Н	S	V	Н	S	V	H	S	V	Н	S	٧	Н	S
o£							(0.64398)	(108.244	0.21964	(0.60697)	(108.516	(0.21903	0.5751	1108.772	0.21045
40	0.74013	108.862	0.22303	0.65782	108.347	0.22107		_	_	_		_		I -	_
50	0.78146	110.393	0.22645	0.70622	110.096	0.22464	0.86115	109.799	0.22272	0.51924	109.496	0.22006	0.50165	100,167	8.21928
80	0.78241	112119	0.22981	0.72820	111.843	0.22793	0.68030	111.564	0.22614	0.63766	111,280	922463	0.55844	110382	12277
	0.80298	22200	0.23309	0.74780	113.584	0.23125	0.00006	113.322	0.22340	0.05508	113.058	0.22761	0.51051	112.787	C2333
80	0.82323	115.500	0.23632	0.76706	115.323	0.23450	0.71748	115.076	0.23278	0.67334	114827	423112	0.63381	114576	2200
90	0.8020	117.291	0.23048	0.70505	117.061	0.23770	0.73559	116.829	0.23590	0.00000	116.594	12307	4.65945	116.357	2
100	0.86291	119.019	0.24280	0.80477	118.801	0.24083	0.75343	118.582	0.23015	0.70777	118.300	123755	0.00007	118.137	623322
110	0.86239	120.749	0.24585	0.62325	120.544	0.24392	0.77104	120.336	0.24226	0.72469	120,127	0.24068	0.05301	119.515	43917
120	0.90167	122,465	9.24988	0.84152	122.290	0.24696	0.76842	122.093	0.24532	0.74120	121.894	0.24376	0.69692	121.894	UCH
130	0.92076	124,226	0.25166	0.55960	124.040	0.24995	0.80561	123.853	0.24533	0.75780	123,866	0.24678	0.71462	123.475	2531
140	0.33968	125.573	0.25480	0.87751	125.796	0.25290	0.52263	125.618	0.25130	0.77383	125.439	0.24577	0.73015	125,259	6263 1
150	0.95844	127.725	0.25750	0.89626	127.558	0.25582	0.83948	127.389	0.25422	0.78969	127.218	0.25271	0.74660	127.047	
160	0.57707	129,457	0.26036	0.91286	129.326	0.25889	0.85519	129,165	0.25711	0.80581		0.25581	0.76071	128.839	0.25418
170	0.39557	131.255	0.26319	0.93034	131.102	0.26154	0.87277	130.948	0.25097	0.82159	130,793	0.25848	0.77578	130,637	0.25706
160	1.0139	133.032	0.26590	0.94770	132.885	0.28435	0.88923	132,738	0.26279	0.63725	132.589	0.26131	0.79073	132,440	0.25300
190	1.0322	134817	0.26676	0.96495	134,677	0.26712	0.90556	134535	0.26558	4.85279		0.26411	0.60556		22271
200	1.0504	138.611	0.27150	0.90209	136,476	0.26967	0.92182		0.28833		136,205		0.82029		
210	1.0585	138.414	0.27421	0.99915	138.284		0.53757			0.06353			0.83482		
220	1.0865	140,228	0.27000	1.0161			0.95404	139.577		0.89885		0.27232	1006	139,725	===
230	1.1044	142.047	0.27966					1	0.27844			0.27500		141,586	27363
				,,,,,,	171.20	427730	4,46	141,200	42/4-1	432443	141,202	42/540	(LOCUS)	141.300	42738

140

150

PERFORMANCE TABLE

BRISTOL COMPRESSORS MODEL H25A56QCBC 60Hz

PETRICEPANT : RZZ Release EM: A29905 DISPLACIMENT : 5.46 CURIC INCHES Revision EM: B15908 Date: 7/94 : 2 -POLE MOTOR Preliminary Data : 230-1-60 VOLINGE SUBCOOLING : 15.0 deg F : 20.0 deg F SUPERHEAT CAPACITY (BTU/HR) EVAPORATING TEMPERATURE, dag F 10 15 20 25 30. 40 45 50 35 -20 -10 -5 8 12512 15425 18645 22184 26057 30279 34464 39825 45178 50956 57113 65724 70782 78305 35720 QSC 7.5 20 11331 1405 17018 20325 23960 27937 3271 36975 42064 47552 53453 99782 6653 7579 ATT 6905 10079 12554 15322 18398 21796 25530 25614 34063 38690 44110 49757 55785 62269 60203 76600 84475 100 11057 13602 16449 19611 23103 26939 31134 35700 40654 46008 51777 57976 64618 71717 79288 MOENSING 110 14520 17448 20700 24290 28231 32539 37227 42310 47802 53717 60068 66872 76141 PERATURE 120 18365 21710 25400 29450 33875 38688 43903 49534 55599 62108 69076 130 des F 22684 26478 30641 35185 40126 45478 51254 57469 4458 140 -31846 34514 41586 47077 53000 59571 150 POWER (WATTS) EVAPORATING TEMPERATURE, deg F 50 55 -5 10 15 20 25 30 35 40 45 5 -15 0 -20 3172 3153 3071 3155 3173 2445 2721 2630 ෂප 3005 3121 2319 7500 2163 80 3492 3525 3538 3444 3213 3304 3382 2544 2719 2860 2990 3106 2231 2604 90 3943 (396) 3795 3860 3909 3518 XXX 3716 2974 3127 3268 3399 2459 2640 2812 2271 100 4339 6395 4268 3712 3847 3972 4063 2687 2879 3064 3240 3407 3545 24.87 MOENSING 110 4613 4356 4491 4723 4819 3710 3887 4054 4210 3331 3525 3130 PERATURE 120 2922 5096 4946 3400 3621 3836 4043 4242 4433 4614 4785 deg F 130 4858 5067 5267 5458 6440 4414 3943 4182 140 4832 5067 5336 5577 5810 4035 150 CURRENT (AMPS) EVAPORATING TEMPERATURE, deg F 0 ... 5 40 45 10 15 20 25 30 35 -5 -15 -10 -20 13.7 13.9 14.1 14.2 14.2 14.3 10.6 11.3 11.8 12.3 12.8 13.1 13.4 0.0 80 15.7 15.9 14.6 15.0 15.2 15.5 14.3 10.1 10.9 11.6 12.3 12.8 13.4 13.9 90 17.4 17.7 15.1 15.5 16.0 16.4 16.8 17.1 13.3 13.9 14.5 11.3 11.9 12.6 100 10.1 19.0 19.4 18.5 15.8 16.4 _ 17.0 17.5 18.0 12.0 12.9 13.7 14.4 15.1 CENSING 110 11.1 16.4 17.2 17.9 18.6 19.2 20.5 21.1 19.8 14.0 14.8 15.7 13.1 PERATURE -120 16.1 17.0 17.9 18.7 19.5 29.3 21.1 21.9 22.7 15.1 130 17.5 18.5 -- 19.5 20.4 21.4 24.2 3.1 22.3 23.3 140 21.2 22.4 23.5 24.6 **25.7** 26.8 150 MASS FLOW (LB/HR) EVAPORATING TEMPERATURE, deg F 35 40 45 0 5 10. 15 20 25 30 -10 -5 - 15 - 20 162.6 199.6 239.7 263.0 329.9 380.4 434.7 493.0 555.5 622.4 693.9 770.1 851.2 937.4 80 153.9 189.5 228.3 270.4 316.1 365.5 418.8 676.2 537.9 604.0 674.7 750.2 830.7 916.4 on. 142.2 176.5 214.0 255.0 299.6 347.9 000.3 456.8 517.6 582.9 653.0 727.9 807.9 893.1 983.7 1080.0 100 161.3 197.6 237.5 281.0 328.4 379.8 435.4 495.5 560.1 629.5 703.9 783.4 868.2 958.4 1054.4 DENSING 110 218.7 261.2 307.6 358.2 413.0 472.4 536.3 605.2 679.0 758.1 842.5 932.5 1028.2 ERATURE 120 PAR

286.6 336.3 390.4 449.1 512.4 580.7 654.1 732.8 816.9 906.6 1002.2

368.4 426.4 489.2 557.0 630.0 708.3 792.1 881.7 977.1

534.9 607.5 685.5 769.1 858.5 953.8

BLOWER PERFORMANCE DATA

Blower	S.C.F.M. et ES.P.														
Speed .	.1	2	. 3		.5	ß	J								
Han	2125	.2100	2055	2020	1980	1990	1870	1820							
Med High	1730	1710	1695	1675	1655	1620 -	1600	1585							
Low	1386	1375	1365	1360	1345	1290	1300	1280							

Moint C. F.M. defination shown are with filter and coil in place.

						co	OUNG P	EFOR	MICE C	MIA						
HEAT PU	MP MODE	NAME:			BRHS	060B										
HOOOR	COR. 11000	R. MANS	*		U25R	VRO										
		1					AST TO		6 04 0 0	a antocc	RUNT					
	NOOR		ਨ			6			16"			105		115*		
AR .		CURCITY			CAMCITY			METCH		1	METCH		į .	CUPACITY		ļ .
2	0	TC	9.6	KW	TC.	3.0	KW	TC.	845	KUR.	T.C.	845	K.W.	T.C.	3.5	202
1500	85/71	63.7	39.0	4.51	80.4	37.8	4.55	57.1	35.6	5.19	53.7	35.4	5.50	50.2	34.1	5.00
	80/67	58.1	37.4	4.34	55.3	36.3	4.00	24	35.1	4.98	49.2	227	5.27	45.0	325	3.5
	75/63	53.2	36.1	4.22	50.4	349	4.52	47.8	22.8	441	44.7	25.7	5.05	41.7	31.0	8.30
-	73/61	51.1	35.9	415	48.5	34.9	4.44	45.9	227	4.72	42.0	32.4	438	40.1	30.9	5.20
	85/71	619	413	4.55	61.5	40.1	4.89	58.1	38.4	5.23	54.8	37.8	5.54	51.0	36.4	5.05
1700	80/67	59.3	39.8	4.30	58.3	38.6	4.72	273	37.A	5.04	50.1	36.0	5.72	45.8	34.6	5.00
	75/63	54.4	36.1	425	\$1.7	36.9	4.55	44.9	35.7	4.85	45.8	343	5.10	25	32.5	5.36
	73/61	52.2	38.3	4.20	49.5	36.8	4.40	46.8	35.6	4.77	439	343	5.01	40.9	32.9	525
	95/71	95.9	44	458	82.4	42.2	4.93	58.9	40.9	5.27	55.4	39.7	5.59	21.2	38.4	5.91
1900	80/67	60.4	41.3	443	57.3	40.5	4.76	5L1	39.2	5.08	50.9	37.9	5.36	47.8	36.5	5.64
	75,63	55.5	39.9	429	52.6	38.7	4.59	49.5	37.A	4.80	48.4	36.0	5.14	43.1	34.6	5.39
	73/61	53.3	39.9	4.22	50.6	38.7	12	47.8	37A	4.81	44.5	35.9	5.08	41,4	34.4	5.30
OTE	/S carrie	-	-	-	-	1100 011	H/ 1680 CF	<u>. </u>			130	-		mily.		•

